



98	1503	100.0	282	7	ADB22242	ADB22242	Novel	hum	171	1503	100.0	282	7	ADE03956	ADE03956	Human	PRO
99	1503	100.0	282	7	AB017576	AB017576	Human	PRO	172	1503	100.0	282	7	ADE32253	ADE32253	Novel	hum
100	1503	100.0	282	7	ADA66933	ADA66933	Human	PRO	173	1503	100.0	282	7	ADE22185	ADE22185	Novel	PRO
101	1503	100.0	282	7	ADB22794	ADB22794	Human	PRO	174	1503	100.0	282	7	ADT79409	ADT79409	Human	PRO
102	1503	100.0	282	7	ADB23567	ADB23567	Human	PRO	175	1503	100.0	282	7	ADE41945	ADE41945	Human	PRO
103	1503	100.0	282	7	ADA92289	ADA92289	Novel	hum	176	1503	100.0	282	7	ADE17762	ADE17762	Human	PRO
104	1503	100.0	282	7	ADB15352	ADB15352	Human	PRO	177	1503	100.0	282	7	ADP91894	ADP91894	Human	PRO
105	1503	100.0	282	7	ADB38604	ADB38604	Novel	hum	178	1503	100.0	282	7	ADE33357	ADE33357	Novel	hum
106	1503	100.0	282	7	ADB38052	ADB38052	Novel	hum	179	1503	100.0	282	7	ADE33909	ADE33909	Novel	hum
107	1503	100.0	282	7	ADB66524	ADB66524	Novel	hum	180	1503	100.0	282	7	ADT79961	ADT79961	Human	PRO
108	1503	100.0	282	7	ADB89604	ADB89604	Human	PRO	181	1503	100.0	282	7	ADP09298	ADP09298	Human	PRO
109	1503	100.0	282	7	ADB90336	ADB90336	Human	PRO	182	1503	100.0	282	7	ADE19418	ADE19418	Human	PRO
110	1503	100.0	282	7	ADB77653	ADB77653	Human	sec	183	1503	100.0	282	7	ADP34760	ADP34760	Human	sec
111	1503	100.0	282	7	ADB39437	ADB39437	Novel	hum	184	1503	100.0	282	7	ADE18866	ADE18866	Human	PRO
112	1503	100.0	282	7	ADB74789	ADB74789	Human	sec	185	1503	100.0	282	7	ADP43062	ADP43062	Human	PRO
113	1503	100.0	282	7	ADB47060	ADB47060	Novel	hum	186	1503	100.0	282	7	ADP95851	ADP95851	Human	PRO
114	1503	100.0	282	7	ADB86667	ADB86667	Human	PRO	187	1503	100.0	282	7	ADE22737	ADE22737	Human	PRO
115	1503	100.0	282	7	ADB77272	ADB77272	Novel	hum	188	1503	100.0	282	7	ADP78855	ADP78855	Human	PRO
116	1503	100.0	282	7	ADB34429	ADB34429	Human	PRO	189	1503	100.0	282	7	ADE32805	ADE32805	Human	PRO
117	1503	100.0	282	7	ADB35533	ADB35533	Human	PRO	190	1503	100.0	282	7	ADE42497	ADE42497	Human	PRO
118	1503	100.0	282	7	ADB33877	ADB33877	Human	PRO	191	1503	100.0	282	7	ADB80613	ADB80613	Human	PRO
119	1503	100.0	282	7	ADB34981	ADB34981	Human	PRO	192	1503	100.0	282	7	ADP89541	ADP89541	Human	PRO
120	1503	100.0	282	7	ADB36085	ADB36085	Human	PRO	193	1503	100.0	282	7	ADE40825	ADE40825	Human	PRO
121	1503	100.0	282	7	ADB46480	ADB46480	Novel	hum	194	1503	100.0	282	7	ADE04624	ADE04624	Human	PRO
122	1503	100.0	282	7	ADB38435	ADB38435	Human	sec	195	1503	100.0	282	7	ADE92753	ADE92753	Human	PRO
123	1503	100.0	282	7	ADB39635	ADB39635	Human	sec	196	1503	100.0	282	7	ADG21462	ADG21462	Novel	hum
124	1503	100.0	282	7	ADB40149	ADB40149	Human	sec	197	1503	100.0	282	7	ADP77329	ADP77329	Human	8D6
125	1503	100.0	282	7	ADB38977	ADB38977	Human	sec	198	1503	100.0	282	7	ADG23103	ADG23103	Novel	hum
126	1503	100.0	282	7	ADB34273	ADB34273	Human	sec	199	1503	100.0	282	7	ADP97438	ADP97438	Human	PRO
127	1503	100.0	282	7	ADB29328	ADB29328	Human	sec	200	1503	100.0	282	7	ADG10648	ADG10648	Human	STRA
128	1503	100.0	282	7	ADB38859	ADB38859	Human	sec	201	1503	100.0	282	7	ADG80502	ADG80502	Human	PRO
129	1503	100.0	282	7	ADB40744	ADB40744	Human	sec	202	1503	100.0	282	7	ADG79950	ADG79950	Human	PRO
130	1503	100.0	282	7	ADB39401	ADB39401	Human	sec	203	1503	100.0	282	7	ADH59243	ADH59243	Human	sec
131	1503	100.0	282	7	ADB33849	ADB33849	Human	sec	204	1503	100.0	282	7	ADH55242	ADH55242	Novel	hum
132	1503	100.0	282	7	ADB312919	ADB312919	Human	sec	205	1503	100.0	282	7	ADH55794	ADH55794	Novel	hum
133	1503	100.0	282	7	ADB50353	ADB50353	Novel	hum	206	1503	100.0	282	7	ADL38022	ADL38022	Human	sec
134	1503	100.0	282	7	ADB71900	ADB71900	Novel	hum	207	1503	100.0	282	7	ADL64962	ADL64962	Novel	hum
135	1503	100.0	282	7	ADB59879	ADB59879	Novel	hum	208	1503	100.0	282	7	ADL63461	ADL63461	Novel	hum
136	1503	100.0	282	7	ADB5886	ADB5886	Novel	hum	209	1503	100.0	282	7	ADH81875	ADH81875	Novel	hum
137	1503	100.0	282	7	ADB57240	ADB57240	Novel	hum	210	1503	100.0	282	7	ADH81323	ADH81323	Novel	hum
138	1503	100.0	282	7	ADB60431	ADB60431	Novel	hum	211	1503	100.0	282	7	ADJ26290	ADJ26290	Human	sec
139	1503	100.0	282	7	ADB50906	ADB50906	Novel	hum	212	1503	100.0	282	7	ADH82492	ADH82492	Novel	hum
140	1503	100.0	282	7	ADB54533	ADB54533	Human	PRO	213	1503	100.0	282	7	ADN15891	ADN15891	Novel	hum
141	1503	100.0	282	7	ADB54531	ADB54531	Novel	hum	214	1503	100.0	282	7	ADN16520	ADN16520	Novel	hum
142	1503	100.0	282	7	ADB53492	ADB53492	Novel	hum	215	1503	100.0	282	7	ADN15339	ADN15339	Novel	hum
143	1503	100.0	282	7	ADB59015	ADB59015	Novel	hum	216	1503	100.0	282	7	ADN14787	ADN14787	Novel	hum
144	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	217	1503	100.0	282	7	ADL64013	ADL64013	Novel	hum
145	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	218	1503	100.0	282	8	ADP81049	ADP81049	Novel	hum
146	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	219	1503	100.0	282	8	ADP79205	ADP79205	Human	sec
147	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	220	1503	100.0	282	8	ADP76497	ADP76497	Human	PRO
148	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	221	1503	100.0	282	8	ADP87861	ADP87861	Human	PRO
149	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	222	1503	100.0	282	8	ADP86265	ADP86265	Human	PRO
150	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	223	1503	100.0	282	8	ADP79629	ADP79629	Human	sec
151	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	224	1503	100.0	282	8	ADP75713	ADP75713	Human	PRO
152	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	225	1503	100.0	282	8	ADP73305	ADP73305	Human	sec
153	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	226	1503	100.0	282	8	ADP32889	ADP32889	Human	PRO
154	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	227	1503	100.0	282	8	ADP23841	ADP23841	Human	PRO
155	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	228	1503	100.0	282	8	ADP24484	ADP24484	Human	PRO
156	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	229	1503	100.0	282	8	ADP87309	ADP87309	Human	PRO
157	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	230	1503	100.0	282	8	ADP89175	ADP89175	Human	PRO
158	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	231	1503	100.0	282	8	ADP73840	ADP73840	Human	sec
159	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	232	1503	100.0	282	8	ADP18314	ADP18314	Human	PRO
160	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	233	1503	100.0	282	8	ADP88623	ADP88623	Human	PRO
161	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	234	1503	100.0	282	8	ADP93994	ADP93994	Human	sec
162	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	235	1503	100.0	282	8	ADP94643	ADP94643	Human	PRO
163	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	236	1503	100.0	282	8	ADP91054	ADP91054	Human	PRO
164	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	237	1503	100.0	282	8	ADP95195	ADP95195	Human	PRO
165	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	238	1503	100.0	282	8	ADP93305	ADP93305	Human	PRO
166	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	239	1503	100.0	282	8	ADP34886	ADP34886	Human	PRO
167	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	240	1503	100.0	282	8	ADP98513	ADP98513	Human	sec
168	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	241	1503	100.0	282	8	ADP92201	ADP92201	Novel	hum
169	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	242	1503	100.0	282	8	ADP90502	ADP90502	Human	PRO
170	1503	100.0	282	7	ADB58463	ADB58463	Novel	hum	243	1503	100.0	282	8	ADP91649	ADP91649	Novel	hum

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 1, 2006, 17:51:56 ; Search time 40 Seconds  
(without alignments)  
678.328 Million cell updates/sec

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Title: US-09-904-532B-127
Perfect score: 1503
Sequence: 1 MSGMNAQVGAMRTGALGLA.....GILVAMKESILLSEQKTSLP 282
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Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 segs, 96216763 residues  
Total number of hits satisfying chosen parameters

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing:	Minimum Match	0%
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Listing first 100 summaries

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Database :
1: pir_80:*
2: pir2:*
3: pir3:*
4: pir4:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	293.5	19.5	996	2	JE027	apolipoprotein E 1
2	286.5	19.1	863	1	SS1789	VLDL receptor precursor
3	280.5	18.7	873	1	A49729	VLDL receptor precursor
4	278.5	18.5	869	1	JC4858	VLDL receptor precursor
5	275	18.3	873	1	I48952	VLDL receptor precursor
6	268	17.8	873	1	OR8VD	VLDL receptor precursor
7	259	17.2	972	2	A30363	glycoprotein gp330 protein precursor
8	255.5	17.0	4660	2	T42727	alpha-2-macroglobulin
9	251	16.7	4544	1	S0232	alpha-2-macroglobulin
10	251	16.7	4545	1	S25111	alpha-2-macroglobulin
11	250	16.6	4543	1	A53102	alpha-2-macroglobulin
12	245.5	16.3	4753	1	A47437	LDL receptor-related protein
13	244	16.2	1984	2	T13171	probable vitellin receptor
14	239	15.9	2215	2	T00348	Ldl protein - mouse
15	237.5	15.8	2180	2	T29745	hypothetical protein
16	234	15.6	1357	2	T16660	hypothetical protein
17	234	15.6	1650	2	SS3457	hypothetical protein
18	229	15.2	1142	2	T30272	dominant autoantigen
19	227	15.1	4391	2	A38096	hypothetical protein
20	226.5	15.1	860	1	OR8UD	perlecan precursor
21	226	15.0	837	1	A29512	LDL receptor precursor
22	223.5	14.9	909	1	ORXL1	LDL receptor precursor
23	223.5	14.9	909	1	ORXL2	LDL receptor precursor
24	223.5	14.9	1615	2	JE0372	LDL receptor precursor
25	222.5	14.8	925	2	T37475	lipoprotein receptor
26	219.5	14.6	621	2	T38467	low density lipoprotein
27	216	14.4	1113	2	JE035	low density lipoprotein
28	216	14.4	3707	2	S18252	heparan sulfate proteoglycan
29	215.5	14.3	527	2	JE0373	low density lipoprotein

30	215.5	14.3	862	1	ORM5LD
31	214.5	14.3	1621	2	T31330
32	214	14.2	1854	1	QRH7LD
33	214	14.2	1613	2	UE0272
34	214	14.2	1613	2	UE0273
35	208	13.8	2616	2	A57096
36	207	13.8	879	1	QRH7LD
37	205	13.6	1847	2	T18308
38	202.5	13.5	548	2	T16642
39	196.5	13.1	1257	2	T30274
40	193.5	12.9	855	2	JC7731
41	191.5	12.7	574	2	B88465
42	184.5	12.3	770	2	T00203
43	183.5	12.2	770	2	T00203
44	183	12.2	1160	2	F88369
45	183	12.2	2255	2	C88369
46	183	12.2	3375	2	T19821
47	182	12.1	1115	2	S40241
48	181.5	12.1	2643	2	T29149
49	168	11.2	905	2	T23229
50	165.5	11.0	250	2	T30124
51	160.5	10.7	198	2	T24776
52	160.5	10.7	435	2	T54182
53	160	10.6	1609	2	S44821
54	156.5	10.4	334	2	T20633
55	141	9.4	531	2	T18741
56	140.5	9.3	277	2	T37552
57	137.5	9.1	157	2	B49837
58	131.5	8.7	666	2	S43562
59	131.5	8.7	752	2	T20871
60	131	8.7	354	2	T22274
61	130.5	8.7	120	2	A48837
62	130.5	8.7	4006	2	T09070
63	130	8.6	577	2	A50501
64	128.5	8.5	990	2	H88733
65	127	8.4	1101	2	T16840
66	125	8.3	738	2	S40992
67	125	8.3	739	2	B88553
68	124	8.3	308	2	JC7125
69	124	8.3	765	2	T35719
70	124	8.3	1119	2	T16720
71	123.5	8.2	3133	2	S52093
72	122.5	8.2	427	1	GSHN
73	122	8.1	3566	1	A40701
74	121.5	8.1	197	2	T10081
75	120	8.0	1428	2	T06852
76	119	7.9	251	2	A55035
77	118.5	7.9	613	2	S15468
78	118	7.9	2120	2	T30243
79	117.5	7.8	558	2	T15448
80	117.5	7.8	4135	2	T24629
81	114.5	7.6	356	2	A25918
82	113.5	7.6	1035	1	A43090
83	113	7.5	525	2	B48058
84	113	7.5	546	2	UC4798
85	112.5	7.5	591	1	I48141
86	111	7.4	469	1	S29126
87	110.5	7.4	1221	1	L38902
88	110	7.4	579	2	JC7629
89	110	7.3	1564	2	T09059
90	109.5	7.3	1559	1	AGRT
91	108.5	7.2	2524	2	A35844
92	108	7.2	316	2	G86333
93	108	7.2	1328	2	T43060
94	107.5	7.2	744	2	J00313
95	107.5	7.2	1786	1	S18964
96	107.5	7.2	1555	1	ACGH
97	107.5	7.2	2201	1	A32160
98	107.5	7.2	2703	1	A24420
99	107.5	7.2	2824	1	T22759
100	107.5	7.2	2518	2	A54105

## ALIGNMENTS

## RESULT 1

apolipoprotein E receptor 2 precursor - mouse

N.Alternate names: apoER2

C.Species: Mus musculus (house mouse)

C.Date: 05-Dec-1998 #sequence\_revision 05-Dec-1998 #text\_change 09-Jul-2004

C.Accession: J0237

R.Kim, H.J.; Kim, D.H.; Magoori, K.; Saeki, S.; Yamamoto, T.T.

J. Biochem. 124, 451-456, 1998

A.Title: Evolution of the apolipoprotein E receptor 2 gene by exon loss.

A.Reference number: J0237; MUID:98352008; PMID:9685741

A.Accession: J0237

A.Molecule type: mRNA

A.Residues: 1-996 <KIM>

A.Cross-references: UNIPROT:Q924X6; UNIPARC:UPI0000176758; DDBJ:D85463

C.Superfamily: LDL receptor; EGF homology; LDL receptor ligand-binding repeat homology;

C.Keywords: glycoprotein

F.1-35/Domain: signal sequence #status predicted <SIG>

F.36-996/Product: apolipoprotein E receptor 2 #status predicted <MAT>

F.41-75/Domain: LDL receptor ligand-binding repeat homology <LDL1>

F.80-116/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F.121-157/Domain: LDL receptor ligand-binding repeat homology <LDL3>

F.161-195/Domain: LDL receptor ligand-binding repeat homology <LDL4>

F.200-237/Domain: LDL receptor ligand-binding repeat homology <LDL5>

F.251-286/Domain: LDL receptor ligand-binding repeat homology <LDL6>

F.291-325/Domain: LDL receptor ligand-binding repeat homology <LDL7>

F.331-366/Domain: LDL receptor ligand-binding repeat homology <LDL7>

F.373-407/Domain: EGF homology <EGF>

F.585-628/Domain: LDL receptor YWTD-containing repeat homology <YWT>

F.723-767/Domain: EGF homology <EGF1>

F.858-881/Domain: transmembrane #status predicted <TM>

F.805,840/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 19.5%; Score 293.5; DB 2; Length 996;

Best Local Similarity 40.2%; Pred. No. 2,4e-12;

Matches 68; Conservative 15; Mismatches 65; Indels 21; Gaps 7;

Db 8 QVAVRTGALGALLLLGLGLLEAAASPLSTPTSAQAAGSSGSCPTPKQCRSTGLC 67

5 ELGALRP-----LALLLLLLQLQHLAAADPL-----LGGQGVK--ECEDQGRCHNE--RC 53

QY 68 VPLTWRCRDLDSCSGSDEEERIEPCT-----QKQCPPEPGLPCPTCTGSDSGCTD 121

Db 54 IPLVWRCEBDNDCSNDSDEDCPKRTCADSDFTCONGHCIPE--RWKCDGEGECPPDSD 110

QY 122 KILRNCRLACLAGELRC-TLSDDCIPLTWRCGHPDCDSDELGCCT 169

Db 111 ESKATCSSECPAEKLSGPTSHKCVPSMRCDGEGDCGADENACPT 159

## RESULT 2

VLDL receptor precursor - chicken

N.Alternate names: very low density lipoprotein receptor; vitellogenin receptor

C.Species: Gallus gallus (chicken)

C.Date: 14-Aug-1998 #sequence\_revision 14-Aug-1998 #text\_change 09-Jul-2004

C.Accession: S51789

R.Bujo, H.; Hermann, M.; Kaderli, M.O.; Jacobsen, L.; Sugawara, S.; Nimpf, J.; Yamamoto,

EMBO J. 13, 5165-5175, 1994

A.Title: Chicken oocyte growth is mediated by an eight ligand binding repeat member of t

A.Reference number: S51789; MUID:95045409; PMID:7957081

A.Accession: S51789

A.Molecule type: mRNA

A.Residues: 1-663 <BUJ>

A.Cross-references: UNIPROT:P98165; UNIPARC:UPI00001166F0; EMBL:X80207; NID:9609265; PID

C.Comment: This receptor mediates uptake of very low density lipoprotein and vitellogenin

C.Superfamily: LDL receptor; EGF homology; LDL receptor ligand-binding repeat homology;

C.Keywords: duplication; fatty acid metabolism; glycoprotein; receptor; transmembrane pr

F.45-863/Product: VLDL receptor #status predicted <MAT>

F.45-787/Domain: extracellular #status predicted <EXT>

F.51-85/Domain: LDL receptor ligand-binding repeat homology <LDL1>

F.90-126/Domain: LDL receptor ligand-binding repeat homology <LDL2>

F.131-167/Domain: LDL receptor ligand-binding repeat homology <LDL3>

F.172-206/Domain: LDL receptor ligand-binding repeat homology <LDL4>

F.211-247/Domain: LDL receptor ligand-binding repeat homology <LDL5>

F.257-291/Domain: LDL receptor ligand-binding repeat homology <LDL6>

F.296-330/Domain: LDL receptor ligand-binding repeat homology <LDL7>

F.336-373/Domain: LDL receptor ligand-binding repeat homology <LDL8>

F.378-412/Domain: EGF homology <EGF1>

F.418-452/Domain: EGF homology <EGF2>

F.459-498/Domain: LDL receptor YWTD-containing repeat homology <YWT1>

F.499-544/Domain: LDL receptor YWTD-containing repeat homology <YWT2>

F.545-587/Domain: LDL receptor YWTD-containing repeat homology <YWT3>

F.588-631/Domain: LDL receptor YWTD-containing repeat homology <YWT4>

F.632-674/Domain: LDL receptor YWTD-containing repeat homology <YWT5>

F.675-717/Domain: LDL receptor YWTD-containing repeat homology <YWT6>

F.726-769/Domain: EGF homology <EGF3>

F.788-809/Domain: transmembrane #status predicted <TM>

F.824-828/Region: coated-pit mediated internalization signal

F.169,773/Binding site: carbohydrate (Asn) (covalent) #status predicted

F.378-389,385-398,400-412,418-428,424-437,439-452,726-739,735-754,756-769/Dissulfide

Query Match 19.1%; Score 286.5; DB 1; Length 863;

Best Local Similarity 38.4%; Pred. No. 6,2e-12;

Matches 63; Conservative 14; Mismatches 62; Indels 25; Gaps 7;

Db 12 WRTGALGALLLLGLGLLEAAASPLSTPTSAQAAGSSGSCPTPKQCRSTGLC 71

23 WALPRCG-ALCLLLALGC-----LRTATDGAKA-----KCEESGQC-SNGRCIPL 67

QY 72 WRCDRLDCSGSDEEERIEPCTQ-----KQCCPPPEGLPCPTCTGSDSGCTDKLR 125

Db 68 WKCGDECCSGSDESAVKKTKCAESPFVCSGQCVN--RWCCDGPDCDSDESAB 124

QY 126 NCSRLACLAGELRC-TLSDDCIPLTWRCGHPDCDSDELGCCT 168

Db 125 LCHMRTCRVNEISCGPOSTQCIPIVSWCKDGSKDCDSDEENCG 168

## RESULT 3

VLDL receptor precursor, long splice form - human

N.Alternate names: very low density lipoprotein receptor; vitellogenin receptor

M.Contains: VLDL receptor short splice form

C.Species: Homo sapiens (man)

C.Date: 14-Aug-1998 #sequence\_revision 14-Aug-1998 #text\_change 09-Jul-2004

C.Accession: A49729; B49729; A54309; I54373; I59603

R.Sakai, J.; Hoshino, A.; Takahashi, S.; Miura, Y.; Ishii, H.; Suzuki, H.; Kawarada,

J. Biol. Chem. 269, 2173-2182, 1994

A.Title: Structure, chromosome location, and expression of the human very low densit

A.Reference number: A49729; MUID:94124575; PMID:8294473

A.Accession: A49729

A.Molecule type: mRNA

A.Residues: 1-873 <SAK>

A.Cross-references: UNIPROT:P98155; UNIPARC:UPI000005535; GB:D16493; NID:9391733; I

A.Accession: B49729

A.Molecule type: mRNA

A.Residues: 1-750,779-873 <SA2>

A.Cross-references: UNIPARC:UPI00001736CC; GB:D16494

R.Oka, K.; Izung, K.W.; Sullivan, M.; Lindsay, E.; Baldini, A.; Chan, L.

Genomics 20, 298-300, 1994

A.Title: Human very-low-density lipoprotein receptor complementary DNA and deduced

A.Reference number: A54309; MUID:94292216; PMID:8020981

A.Accession: A54309

A.Molecule type: preliminary

A.Residues: 1-12, '14-765, 'S', 767-873 <OKA>

A.Cross-references: UNIPARC:UPI000016B301; GB:L22431; NID:9437386; PIDN:AAA61344.1;



Thu May 4 07:04:18 2006

Insert sequence).

Name=Cd320; Synonyms=425018-1;

Mus musculus (Mouse);

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;

NCBI\_TaxID=10090;

[11]

NUCLEOTIDE SEQUENCE.

STRAIN=129;

Rowen L., Qin S., Madan A., Loretz C., Hall J., James R., Doris M.,

Shaffer T., Abbasi N., Ratcliffe A., Dickhoff A., Leaky S., Hood L.,

Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.

[12]

NUCLEOTIDE SEQUENCE.

STRAIN=Czech II;

TISSUE=Mammary tumor metastatized to lung. Tumor arose spontaneously;

MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Straussberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Sherman C.F., Bhat N.K.,

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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

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Mus musculus (Mouse);

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;

NCBI\_TaxID=10090;

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: May 1, 2006, 17:55:51 ; Search time 46 Seconds  
(without alignments)  
506.838 Million cell updates/sec

Title: US-09-904-532b-127

Perfect score: 1503

Sequence: 1 MSGGMAQYGANRTGALGLA.....GLIVANKESLLSEQKTSIP 282

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Issued Patents AA: \*  
1: /cgn2\_6/prodata/1/iaa/5.COMB.pep: \*  
2: /cgn2\_6/prodata/1/iaa/6.COMB.pep: \*  
3: /cgn2\_6/prodata/1/iaa/H.COMB.pep: \*  
4: /cgn2\_6/prodata/1/iaa/PCUS.COMB.pep: \*  
5: /cgn2\_6/prodata/1/iaa/RE.COMB.pep: \*  
6: /cgn2\_6/prodata/1/iaa/backfile1.pep: \*

Ered. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1503	100.0	282	2	US-09-904-532b-127
2	1503	100.0	282	2	US-09-904-532b-127
3	1503	100.0	282	2	US-09-904-532b-127
4	1503	100.0	282	2	US-09-904-532b-127
5	1503	100.0	282	2	US-09-904-532b-127
6	1503	100.0	282	2	US-09-904-532b-127
7	1503	100.0	282	2	US-09-904-532b-127
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13	1503	100.0	282	2	US-09-904-532b-127
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21	1503	100.0	282	2	US-09-904-532b-127
22	1503	100.0	282	2	US-09-904-532b-127
23	1503	100.0	282	2	US-09-904-532b-127
24	1503	100.0	282	2	US-09-904-532b-127
25	1503	100.0	282	2	US-09-904-532b-127
26	1503	100.0	282	2	US-09-904-532b-127
27	1503	100.0	282	2	US-09-904-532b-127

28	251	16.7	4544	1	US-08-469-658-52	Sequence 52, Appl
29	245	16.3	726	1	US-08-727-034-7	Patent No. 5208144
30	245	16.3	2214	1	US-09-919-039-40	Sequence 7, Appl
31	245	16.3	2214	2	US-08-476-515A-84	Sequence 84, Appl
32	241	16.0	4654	2	US-08-652-877-84	Sequence 84, Appl
33	241	16.0	4655	2	US-08-652-877-86	Sequence 86, Appl
34	241	16.0	4655	2	US-08-652-877-88	Sequence 88, Appl
35	241	16.0	4655	2	US-08-652-877-90	Sequence 90, Appl
36	241	16.0	4655	2	US-08-652-877-92	Sequence 92, Appl
37	237.5	15.8	1586	2	US-09-060-299-44	Sequence 44, Appl
38	237.5	15.8	1586	2	US-09-402-923A-44	Sequence 44, Appl
39	237.5	15.8	1614	2	US-09-060-299-42	Sequence 42, Appl
40	237.5	15.8	1614	2	US-09-402-923A-42	Sequence 42, Appl
41	236	15.7	2213	1	US-08-727-034-3	Sequence 3, Appl
42	228.5	15.2	1345	2	US-09-949-016-8313	Sequence 8313, Ap
43	227	15.1	4391	2	US-10-006-011A-2	Sequence 2, Appl
44	226.5	15.1	356	1	US-08-228-162-2	Sequence 2, Appl
45	226.5	15.1	860	1	US-08-092-817-4	Sequence 4, Appl
46	226.5	15.1	860	2	US-08-485-128-4	Sequence 8, Appl
47	226.5	15.1	860	2	US-09-804-778A-8	Sequence 8, Appl
48	226.5	15.1	860	2	US-09-824-637-4	Sequence 4, Appl
49	226.5	15.1	1074	1	US-08-470-058-2	Sequence 2, Appl
50	226.5	15.1	1074	2	US-09-037-188-2	Sequence 2, Appl
51	226.5	15.1	1074	2	US-09-285-310-2	Sequence 2, Appl
52	226.5	15.1	1074	2	US-09-753-385-2	Sequence 2, Appl
53	226.5	15.1	1410	1	US-08-470-058-4	Sequence 4, Appl
54	226.5	15.1	1410	2	US-09-037-188-4	Sequence 4, Appl
55	226.5	15.1	1410	2	US-09-285-310-4	Sequence 4, Appl
56	226.5	15.1	1410	2	US-09-753-385-4	Sequence 4, Appl
57	224.5	14.9	1451	2	US-09-060-299-25	Sequence 25, Appl
58	224.5	14.9	1451	2	US-09-402-923A-25	Sequence 25, Appl
59	224.5	14.9	1451	2	US-09-060-299-39	Sequence 39, Appl
60	224.5	14.9	1451	2	US-09-060-299-43	Sequence 43, Appl
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63	224.5	14.9	1451	2	US-09-402-923A-43	Sequence 43, Appl
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68	224.5	14.9	1451	2	US-09-402-923A-29	Sequence 29, Appl
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70	223.5	14.9	1451	2	US-09-544-398B-4	Sequence 4, Appl
71	223.5	14.9	1451	2	US-09-543-771B-3	Sequence 3, Appl
72	223.5	14.9	1451	2	US-09-543-771B-4	Sequence 4, Appl
73	219.5	14.6	944	2	US-08-476-515A-12	Sequence 12, Appl
74	219.5	14.6	944	2	US-08-652-877-12	Sequence 12, Appl
75	216	14.4	1113	2	US-09-959-392-4	Sequence 4, Appl
76	214	14.2	1621	2	US-09-849-016-8450	Sequence 8450, Ap
77	207.5	13.8	884	6	5208144-8	Patent No. 5208144
78	205.5	13.7	750	2	US-09-270-767-42975	Sequence 42975, A
79	201	13.4	1559	6	5208144-35	Patent No. 5208144
80	201	13.4	1042	2	US-09-959-392-2	Sequence 2, Appl
81	198	13.2	158	2	US-09-270-767-32962	Sequence 32962, A
82	198	13.2	158	2	US-09-270-767-48179	Sequence 48179, A
83	194	12.9	137	2	US-09-270-767-32781	Sequence 32781, A
84	194	12.9	713	2	US-09-999-833A-183	Sequence 183, App
85	194	12.9	713	2	US-10-020-445A-183	Sequence 183, App
86	191	12.7	345	2	US-10-293-622-2	Sequence 2, Appl
87	190	12.6	161	2	US-10-293-622-4	Sequence 4, Appl
88	188.5	12.5	902	2	US-09-644-600A-10	Sequence 10, Appl
89	188.5	12.5	902	2	US-09-644-600A-10	Sequence 10, Appl
90	183.5	12.2	806	2	US-09-644-600A-10	Sequence 10, Appl
91	183.5	12.2	806	2	US-09-270-767-3326	Sequence 3326, A
92	183	12.2	302	2	US-09-270-767-48543	Sequence 48543, A
93	176.5	11.7	302	2	US-09-513-999C-4465	Sequence 4465, Ap
94	173.5	11.5	855	1	US-09-027-337-2	Sequence 2, Appl
95	173.5	11.5	855	2	US-09-644-600-2	Sequence 2, Appl
96	173.5	11.5	855	2	US-09-644-600A-2	Sequence 2, Appl
97	173.5	11.5	855	2	US-10-037-417-132	Sequence 132, App
98	172.5	11.0	242	2	US-09-270-767-32046	Sequence 32046, A
99	166	11.0	802	2	US-09-999-833A-169	Sequence 169, App
100	166	11.0	802	2	US-10-020-445A-169	Sequence 169, App



## ALIGNMENTS

RESULT 1  
US-09-907-794A-127  
Sequence 127, Application US/09907794A  
Patent No. 6635468  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Kijavlin, Ivat J.  
APPLICANT: Mathier, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907,794A  
CURRENT FILING DATE: 2001-07-17  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,638  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20344  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
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PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219

PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 127  
LENGTH: 282  
TYPE: PRT  
ORGANISM: Homo sapiens  
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Best Local Similarity 100.0%; Pred. No. 7,5e-122;  
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US-09-905-125A-127  
Sequence 127, Application US/09905125A  
Patent No. 6664376  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Kijavlin, Ivat J.  
APPLICANT: Mathier, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/905,125A  
CURRENT FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: PCT/US00/00219



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Run on: May 1, 2006, 18:08:11 ; Search time 26 Seconds

(without alignments)  
493.260 Million cell updates/sec

Title: US-09-904-532b-127

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 100 summaries

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Published Applications AA New: \*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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3	1503	100.0	282	9	US-10-137-873A-112
4	1503	100.0	282	9	US-10-152-370-312
5	1503	100.0	282	11	US-11-080-991-34
6	1503	100.0	282	11	US-11-290-153-312
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8	280.5	18.7	700	9	US-10-995-561-922
9	280.5	18.7	700	9	US-10-995-561-922
10	280.5	18.7	775	9	US-10-453-372-656
11	280.5	18.7	793	9	US-10-995-561-925
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26	236.5	15.7	857	9	US-10-453-372-652	Sequence 652, App1
27	236.5	15.7	905	9	US-10-453-372-638	Sequence 638, App1
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97	121	8.1	383	11	US-11-147-047-58	Sequence 80, Appl
98	121	8.1	383	11	US-11-264-096-770	Sequence 770, Appl
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## ALIGNMENTS

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RESULT 1
US-10-131-826A-312
; Sequence 312, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:

```

APPLICANT: Beresini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnoyers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3330R1C128

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CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/045911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/05122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/053352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 312
LENGTH: 282
TYPE: PRT
ORGANISM: Homo Sapien
J5-10-131-826A-312

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Best Local Similarity	100.0%;	Pred. No. 3.4e-108;		
Matches 282;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

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; Sequence 312, Application US/10973115B  
; Publication No. US20060040351A1

APPLICANT: Beresini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnoyers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Geriltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Matanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCC  
TITLE OF INVENTION: SAME  
FILE REFERENCE: 39870-3330R(C300C1  
CURRENT APPLICATION NUMBER: US/10/973,115B  
CURRENT FILING DATE: 2004-10-22  
PRIOR APPLICATION NUMBER: US 10/145,747  
PRIOR FILING DATE: 2002-05-14  
PRIOR APPLICATION NUMBER: US 10/028,072  
PRIOR FILING DATE: 2001-12-19  
PRIOR APPLICATION NUMBER: PCT/US00/32678  
PRIOR FILING DATE: 2000-12-01  
PRIOR APPLICATION NUMBER: US 09/581,742  
PRIOR FILING DATE: 2000-06-16  
PRIOR APPLICATION NUMBER: PCT/US00/05746  
PRIOR FILING DATE: 2000-03-02  
PRIOR APPLICATION NUMBER: US 60/135,736  
PRIOR FILING DATE: 1999-05-25  
PRIOR APPLICATION NUMBER: US 60/123,090  
PRIOR FILING DATE: 1999-03-05  
NUMBER OF SEQ ID NOS: 550  
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ORGANISM: Homo sapiens  
US-10-973-115B-312

Query Match	100.0%	Score 1503;	DB 9;	Length 282;
Best Local Similarity	100.0%	Pred. No. 3.4e-108;		--
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